

238590



{In Archive} Re: GE Amendment 4 proposal

David A Eckhardt

to:

Isabel Rodrigues

04/29/2008 05:01 PM

Cc:

Robert Alvey, Don Bussey, kjkelly, kleridesd, Kevin Lynch, mayojj, Chloe Metz, George Shanahan, "JD", John H Williams

Hide Details

From: David A Eckhardt <daeckhar@usgs.gov> Sort List...

To: Isabel Rodrigues/R2/USEPA/US@EPA

Cc: Robert Alvey/R2/USEPA/US@EPA, Don Bussey/LV/USEPA/US@EPA, kjkelly@gw.dec.state.ny.us, kleridesd@cdm.com, Kevin Lynch/R2/USEPA/US@EPA, mayojj@cdm.com, Chloe Metz/R2/USEPA/US@EPA, George Shanahan/R2/USEPA/US@EPA, "JD" <DoughertyJN@cdm.com>, John H Williams <jhwillia@usgs.gov>

Archive: This message is being viewed in an archive.

John Williams and I agree with the GE proposal to add D1 and D2 wells to the existing B47-D3 and B48-D3 sites. The week before we saw their proposal, we analyzed the GE flowmeter logs for the open boreholes at these two sites, and we concluded that the most transmissive fractures were in the D1 and D2 zones. We have seen this elsewhere at the Cayuga site where the Bertie (D3 unit) is fairly tight, such as at EPA-10 and B-30. The B-49 cluster also appears to have a highly transmissive zone in the contaminated Rondout D1 unit (flowmetering could not be done due to borehole instability). Here are our estimates of transmissivities for the two wells in the GE proposal:

**Modeled Flowmeter Estimates of Fracture
Transmissivity (T) at the Cayuga Site, NY**

Well	Zone	T (ft ² /d)
B-47	I1	200
	D1	440
	D2	650
	D3	10
B-48	D1	30
	D2	1500
	D3	10

The rest of their proposal appears to be a diversion from the more pressing needs, namely further characterization of the plume extent is needed at Powerex for development of an effective remedial design. I do agree, however, that EPA-11 should be grouted, since it is an unused EPA well on private property.

David A.V. Eckhardt tel: (607)266-0217 x3018
U.S. Geological Survey cell: (607)227-4182
30 Brown Road fax: (607)266-0521
Ithaca, NY 14850-1573 email: daeckhar@usgs.gov